

IN THE UNITED STATES PATENT AND  
TRADEMARK OFFICE

PATENT

Applicant(s): Jun Shen  
Meichun Ruan  
Charles Wheeler

Atty Docket No.: 12218.1600

Serial No.: To Be Determined

Client Ref: M1-027

Filed: January 18, 2002

Group Art Unit: TBA

TITLE: MICRO-MAGNETIC LATCHING  
SWITCH WITH RELAXED  
PERMANENT MAGNET ALIGNMENT  
REQUIREMENTS

Examiner: TBA

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled MICRO-MAGNETIC LATCHING SWITCH WITH RELAXED PERMANENT MAGNET ALIGNMENT REQUIREMENTS, the specification of which:

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

☐

Number Country Filing Date

[ ]

Number Country Filing Date

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>60/262,776</u>	<u>01/18/01</u>
Application Number	Filing Date
<u>60/280,399</u>	<u>03/30/01</u>
Application Number	Filing Date
<u>60/307,181</u>	<u>07/24/01</u>
Application Number	Filing Date

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information material to patentability as defined in 37 C.F.R. §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status — Patent, Pending</u>
Application Serial No.	Filing date	Status — Patent, Pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Jun Shen

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Phoenix Arizona USA  
City State/Country

Citizenship: \_\_\_\_\_

Post Office Address: 14654 S. 25th Place, Phoenix, Arizona Zip Code: 85048

Full name of second joint inventor: Meichun Ruan

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Tempe Arizona USA  
City State/Country

Citizenship: \_\_\_\_\_

Post Office Address: 1050 S. Stanley Place P162, Tempe, Arizona Zip Code: 85281

Full name of third joint inventor: Charles Wheeler

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Paradise Valley Arizona USA  
City State/Country

Citizenship: \_\_\_\_\_

Post Office Address: 6501 E. Hummingbird Lane, Paradise Valley, Arizona Zip Code: 85253

2025-1447-011802

**IN THE UNITED STATES PATENT  
AND TRADEMARK OFFICE**

**PATENT**

Applicants: Jun Shen  
Meichun Ruan  
Charles Wheeler

Docket No.: 12218.1600

Serial No.: To Be Assigned

Group Art Unit: NYA

Filing Date: January 18, 2002

Examiner: NYA

Title: MICRO-MAGNETIC LATCHING SWITCH  
WITH RELAXED PERMANENT MAGNET  
ALIGNMENT REQUIREMENTS

**POWER OF ATTORNEY**

Arizona Board of Regents, the Assignee of the entire right, title, and interest in and to the above-captioned United States patent application and all inventions disclosed and claimed therein, hereby appoints as its attorneys to prosecute the above-captioned United States patent application and to transact all business in the United States Patent and Trademark Office connected therewith and with the resulting patent, individually and collectively:

**SNELL & WILMER L.L.P.**  
One Arizona Center  
400 East Van Buren  
Phoenix, Arizona 85004-2202  
Telephone: (602) 382-6000  
Facsimile: (602) 382-6070

and the registered attorneys associated with Snell & Wilmer's Customer Number 020322.

**Please send all further correspondence to Brett A. Carlson at the above address.**

By: \_\_\_\_\_ Dr. Alan Poskanzer

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

20051144 "011802

STATE OF ARIZONA       )  
                                  ) ss.  
COUNTY OF MARICOPA   )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a notary public in and for said county, appeared Jun Shen, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

\_\_\_\_\_  
Notary Public

My commission expires:

\_\_\_\_\_

Inventor:       Meichun Ruan

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence address: 1050 S. Stanley Place       Tempe, Arizona 85281

STATE OF ARIZONA       )  
                                  ) ss.  
COUNTY OF MARICOPA   )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a notary public in and for said county, appeared Meichun Ruan, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

\_\_\_\_\_  
Notary Public

My commission expires:

\_\_\_\_\_

Inventor: Charles B. Wheeler

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence address: 6501 E. Hummingbird Lane, Paradise Valley, Arizona 85253

STATE OF ARIZONA       )  
                                      ) ss.  
COUNTY OF MARICOPA   )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2001, before me, a notary public in and for said county, appeared Charles Wheeler, who is known to me to be the same person whose name is subscribed to the foregoing instrument, and he acknowledges that he signed, sealed and delivered the said instrument as a free and voluntary act for the uses and purposes therein set forth.

(Seal)

\_\_\_\_\_  
Notary Public

My commission expires:

\_\_\_\_\_

2001-01-14 14:47:01

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor (hereinafter "ASSIGNOR") of the address indicated below, is the inventor of "**MICRO MAGNETIC LATCHING SWITCHES AND METHODS OF MAKING THE SAME**", for which a provisional application for Letters Patent of the United States has been executed on January 18, 2001 ;

**AND WHEREAS**, ARIZONA STATE UNIVERSITY. (hereinafter "ASSIGNEE"), with an office at P.O. Box 873511, Tempe, Arizona 85287-3511, is desirous of acquiring an interest therein;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND HEREBY AGREES** to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

**AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

**EXECUTED** as of the date written below by ASSIGNOR:

Inventor: Jun Shen

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence address: , 14654 S. 25th Place, Phoenix, Arizona 85048

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